

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

07/13/2011

Gene Flynn  
Assistant District Attorney, Norfolk County

Dear ADA Flynn,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631

## Curriculum Vitae

Annle Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Kate A. Corbett

### Education

**Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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### Employment

**Chemist II** State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

**Chemist I** State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

**Research Associate** (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

**Intern** (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
State Laboratory Institute

Boston Drug  
Laboratory  
Tel (617) 983-6622  
Fax (617) 983-6625

Amherst Drug  
Laboratory  
Tel (413) 545-2601  
Fax (413) 545-2608

Boston Hours  
8:00 – 11:00  
2:00 – 4:00

Amherst Hours  
9:00 – 12:00  
1:00 – 4:00

## DRUG RECEIPT

City or Department: WALPOLE Police Reference No. [REDACTED]

Name and Rank of Submitting Officer: DET. William Bausch

Defendant(s) Name (last, first, initial)

[REDACTED]

Description of Samples	To be completed by Lab Personnel	
	Gross Weight	Lab Number
3 white Rocks	10.68 gm	[REDACTED]
1 white Rock	12.16 gm	[REDACTED]
Received by: <u>AS</u>	Date: <u>5.12.10</u>	

No. [REDACTED] Date Analyzed: 8/25/10  
City: Walpole Police Dept.  
Officer: Detective WILLIAM BAUSCH  
Def: [REDACTED]  
Amount: 3 Subst: SUB  
No. Cont: 1 Cont: pb  
Date Rec'd: 05/12/2010 No. Analyzed: 1  
Gross Wt.: 10.68 Net Weight: 0.15  
# Tests: 6 ASD  
• 2 CAC  
Prelim: Cocaine © Findings: Cocaine

No. [REDACTED] Date Analyzed: 8/25/10  
City: Walpole Police Dept.  
Officer: Detective WILLIAM BAUSCH  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: pb  
Date Rec'd: 05/12/2010 No. Analyzed:  
Gross Wt.: 12.16 Net Weight: 3.39  
# Tests: 6 ASD  
• 2 CAC  
Prelim: Cocaine © Findings: Cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Walpole ANALYST ADD

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

off white chunky substance  
173 pb 171 pb

Gross Wt ( 3 ): 0.7640

Gross Wt ( 1 ): 0.2116

Pkg. Wt:           

Net Wt: 0.1507

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - ) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA ( - ) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 08-23-10

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR KAC

DATE 8-25-10

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Walpole ANALYST ASD

No. of samples tested:            Evidence Wt.                     

## PHYSICAL DESCRIPTION:

off white chunky substance  
in 1 PB

Gross Wt ( ): 3.5688

Gross Wt ( ):                     

Pkg. Wt:                     

Net Wt: 3.3910

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - ) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA ( - ) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 08-23-10

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR KAC

DATE 8-25-10

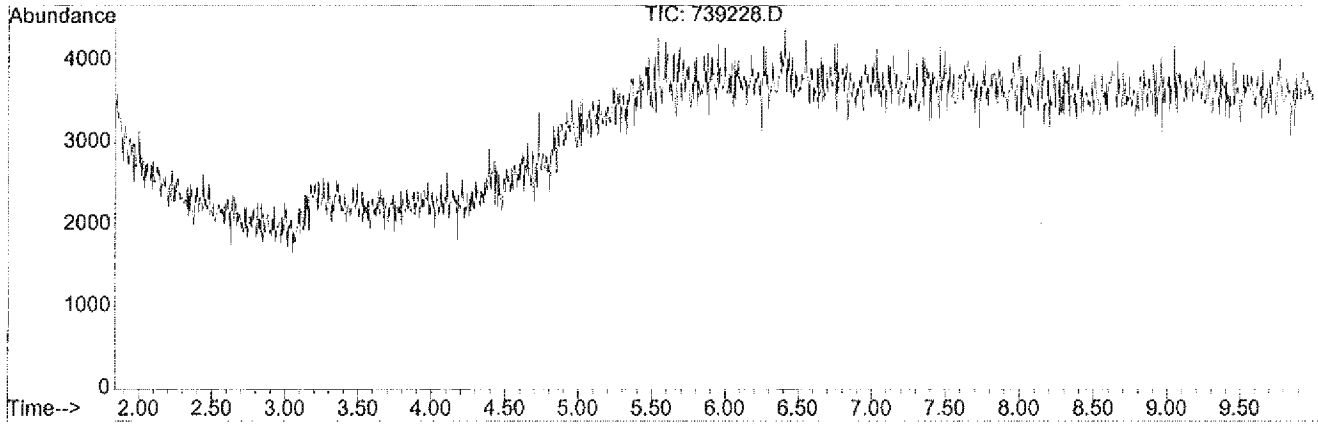
Area Percent / Library Search Report

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Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739228.D  
Operator : ASD  
Date Acquired : 24 Aug 2010 14:02  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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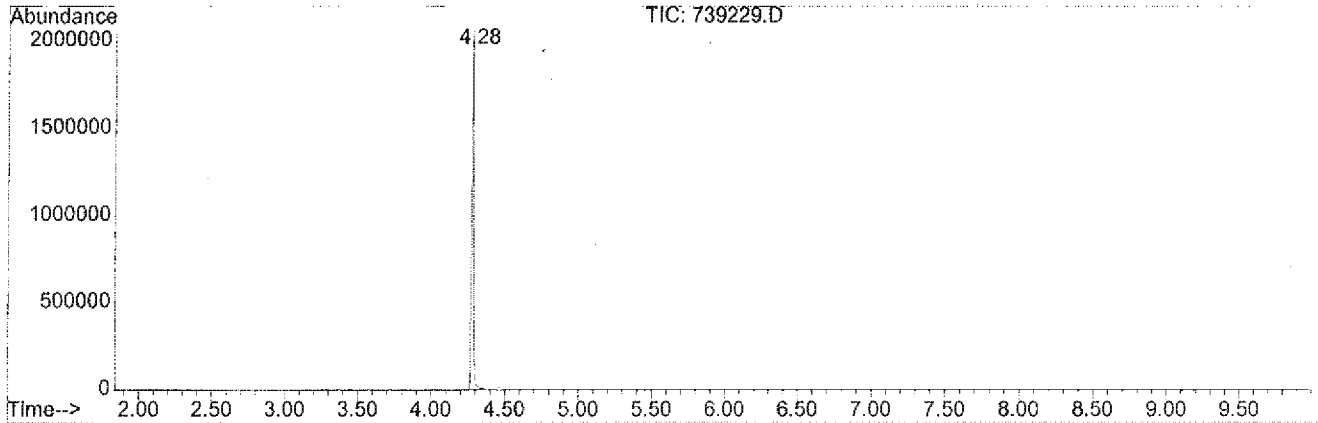
\*\*\*NO INTEGRATED PEAKS\*\*\*



# Area Percent / Library Search Report

## Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739229.D  
Operator : ASD  
Date Acquired : 24 Aug 2010 14:15  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 29  
AcquisitionMeth: DRUGS  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.280	1911722	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

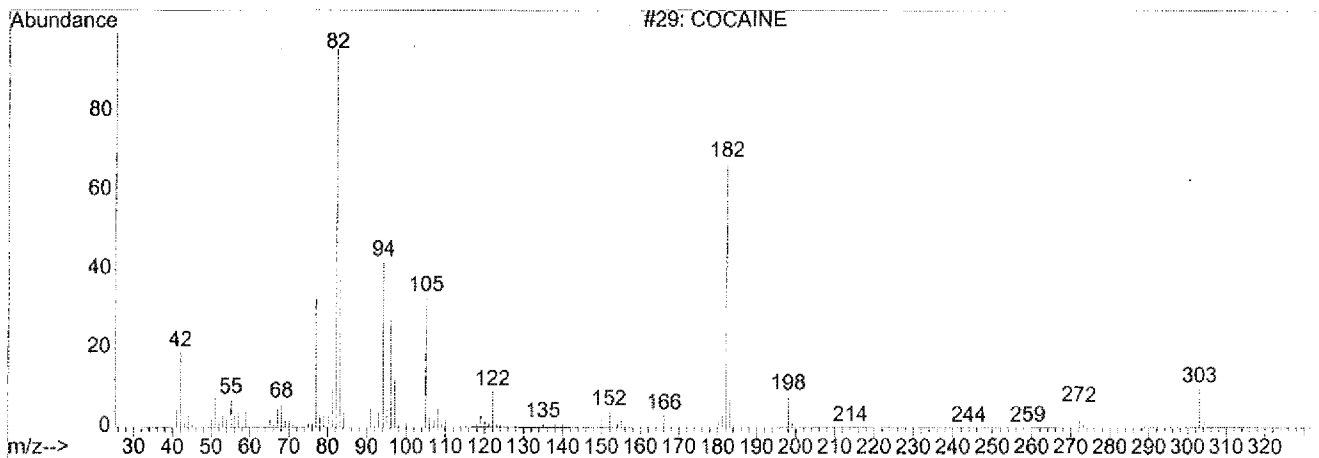
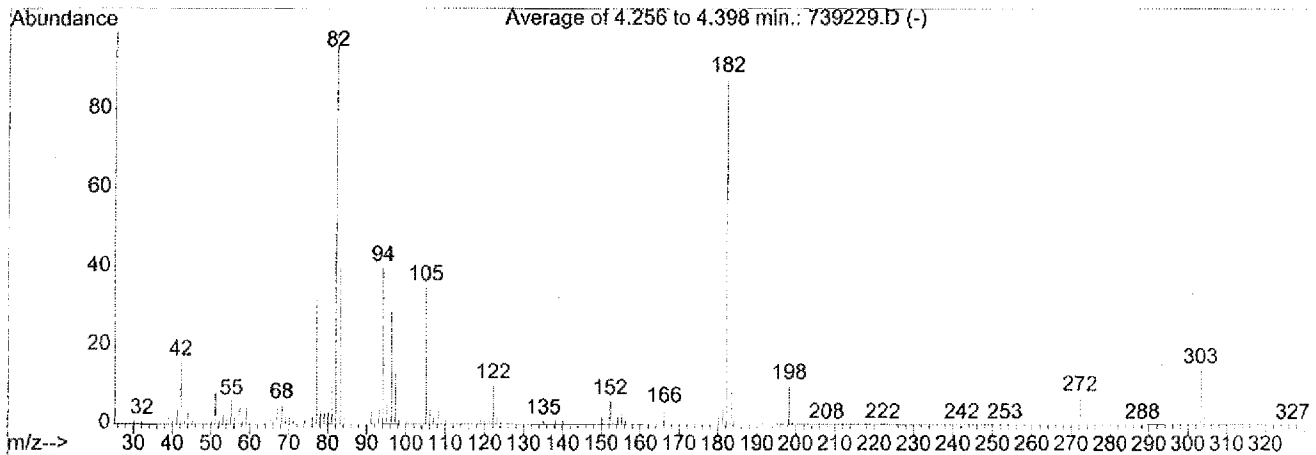
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File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739229.D
Operator        : ASD
Date Acquired   : 24 Aug 2010   14:15
Sample Name     : COCAINE STD
Submitted by    : ASD
Vial Number     : 29
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.28	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



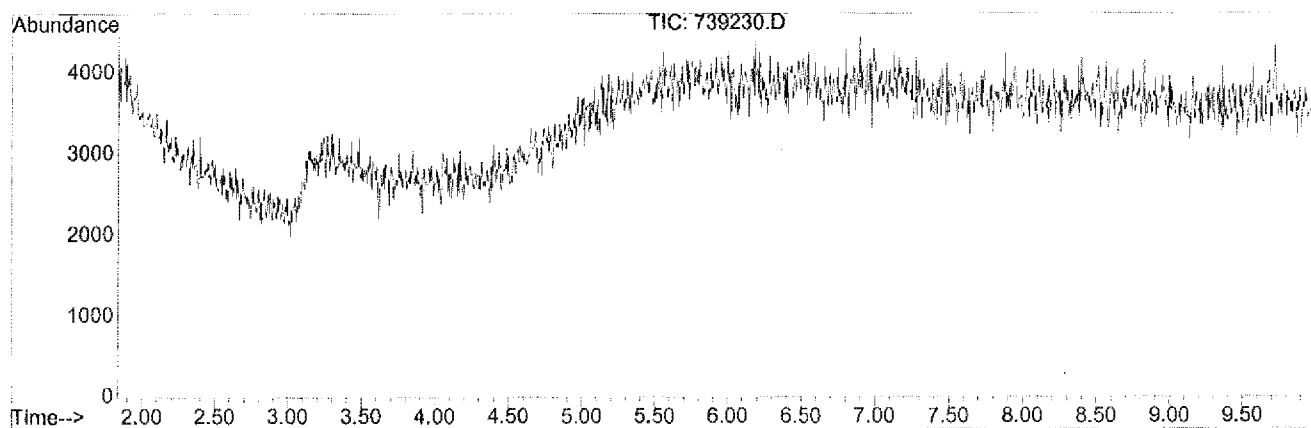
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739230.D  
Operator : ASD  
Date Acquired : 24 Aug 2010 14:28  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

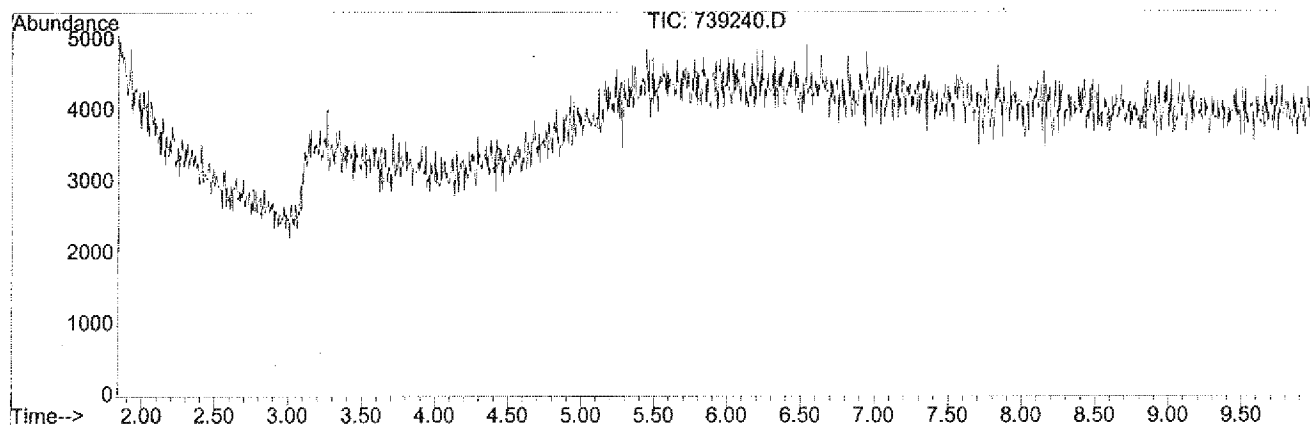
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739240.D  
Operator : ASD  
Date Acquired : 24 Aug 2010 16:36  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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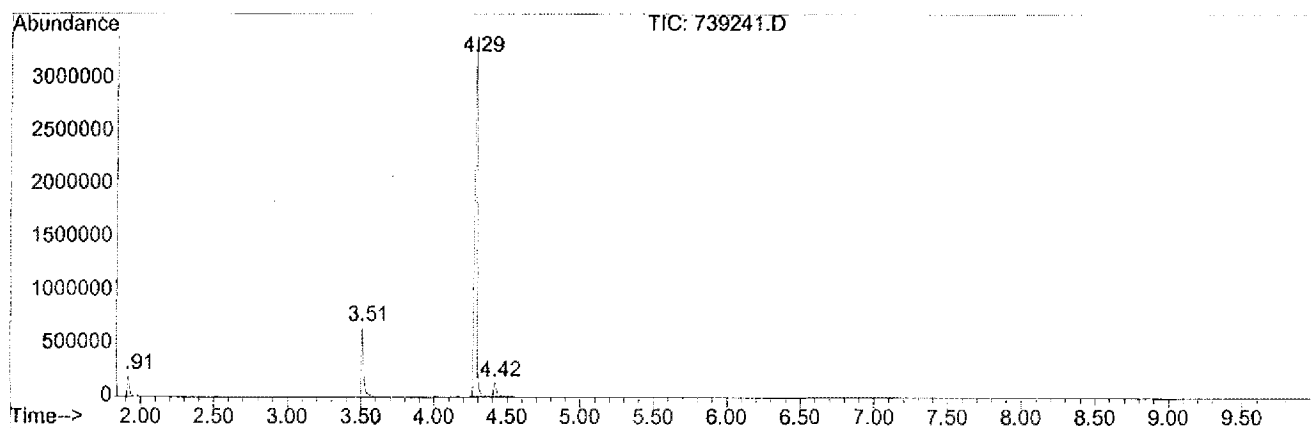
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739241.D  
 Operator : ASD  
 Date Acquired : 24 Aug 2010 16:49  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 41  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
1.915	188170	3.56	4.51
3.509	723511	13.69	17.33
4.286	4175365	79.00	100.00
4.417	198033	3.75	4.74

# Area Percent / Library Search Report

**Information from Data File:**

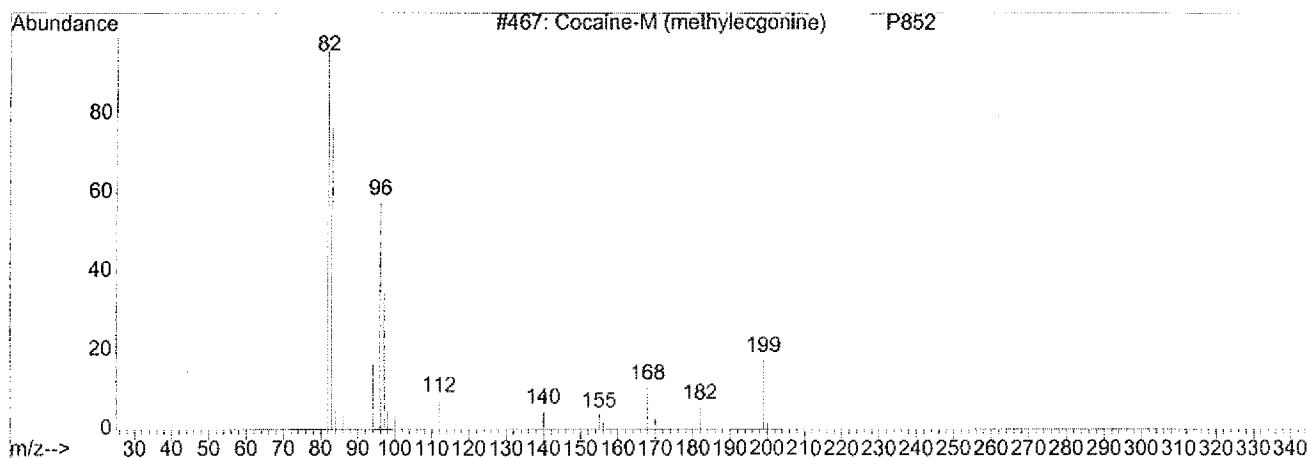
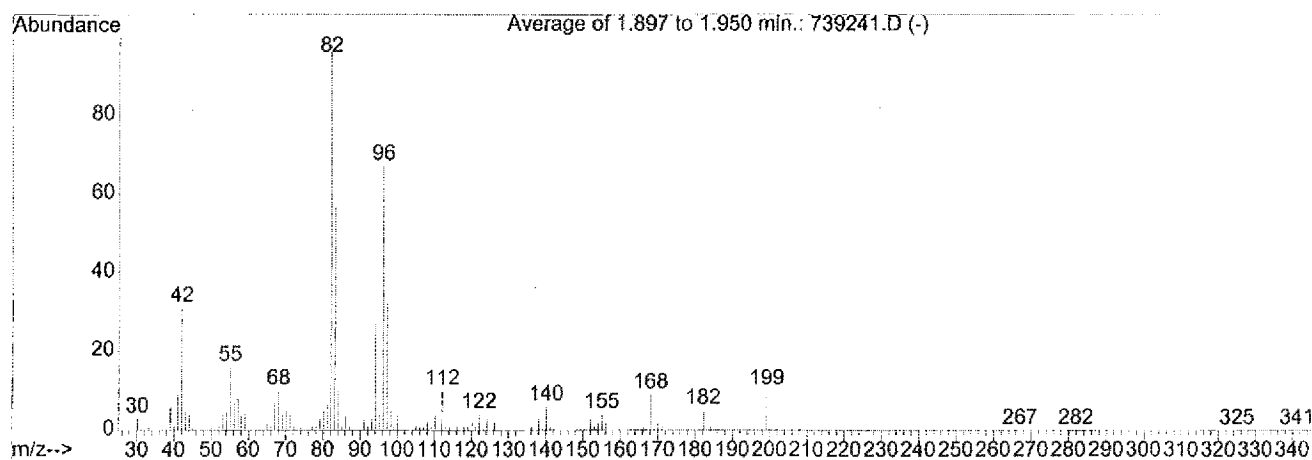
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File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739241.D
Operator        : ASD
Date Acquired   : 24 Aug 2010  16:49
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 41
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	1.91	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (methylecgonine)	007143-09-1	97
		Cocaine-M (methylecgonine) AC	000000-00-0	40
		Cocaine	000050-36-2	38



# Area Percent / Library Search Report

**Information from Data File:**

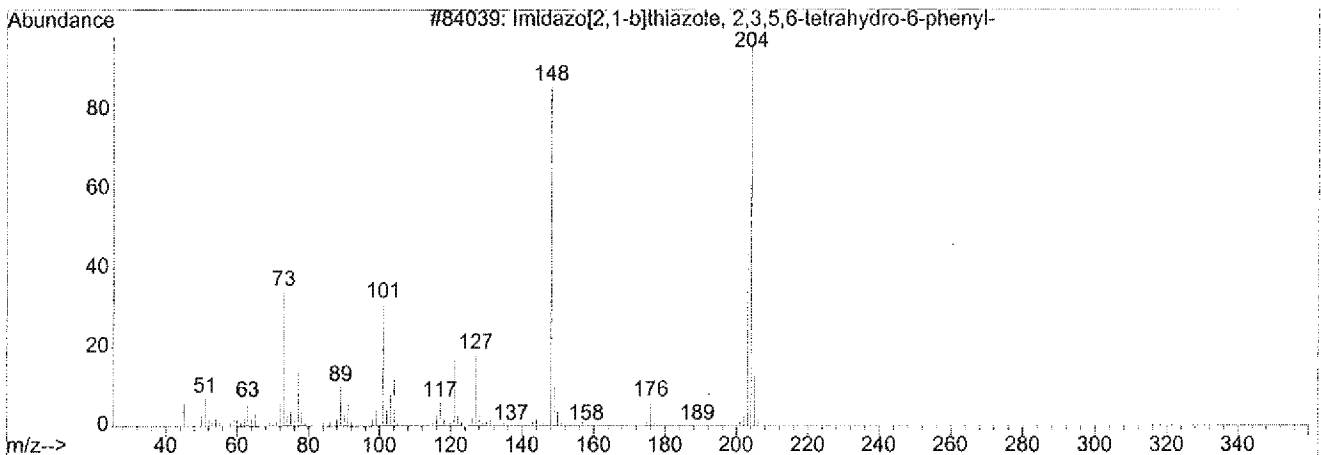
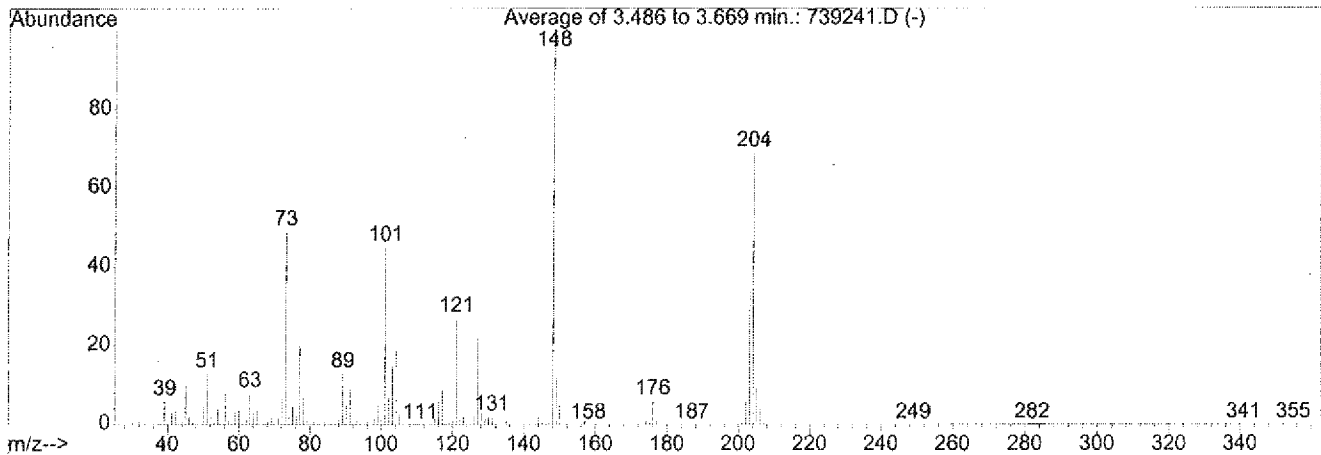
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File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739241.D
Operator        : ASD
Date Acquired   : 24 Aug 2010  16:49
Sample Name     : 
Submitted by    : ASD
Vial Number     : 41
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	3.51	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



# Area Percent / Library Search Report

**Information from Data File:**

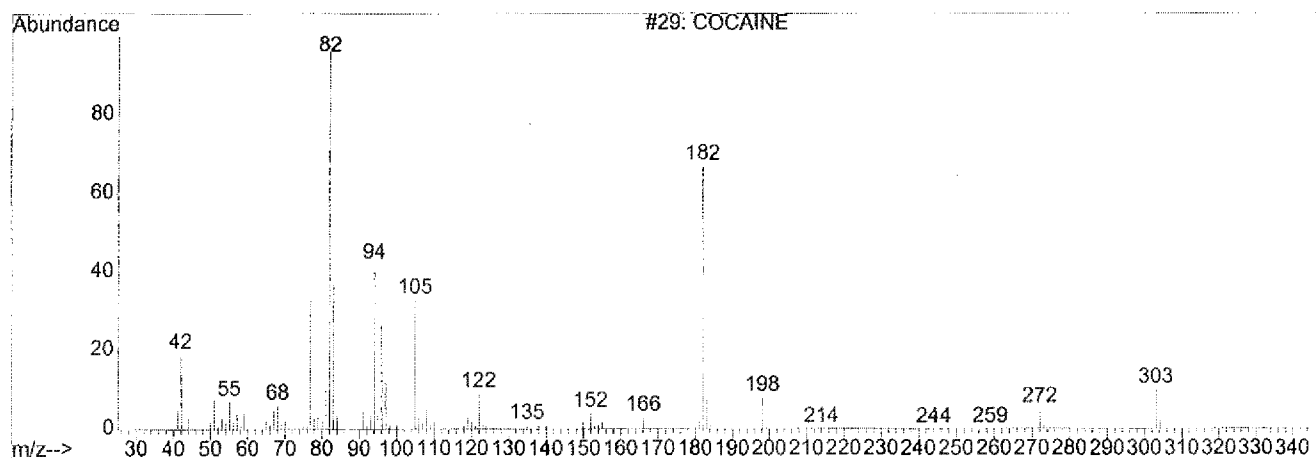
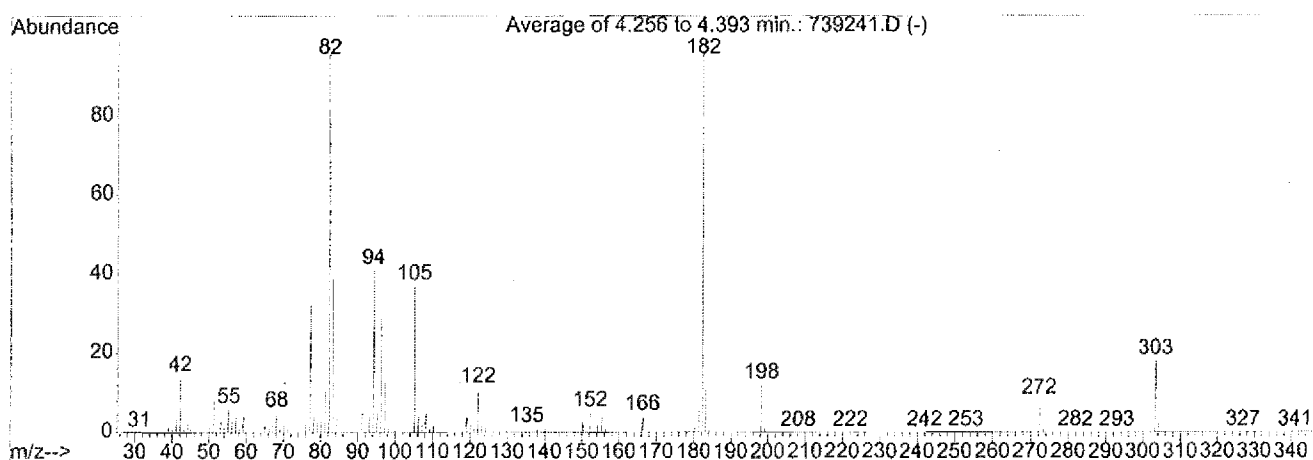
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File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739241.D
Operator        : ASD
Date Acquired   : 24 Aug 2010  16:49
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 41
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
3	4.29	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





# Area Percent / Library Search Report

**Information from Data File:**

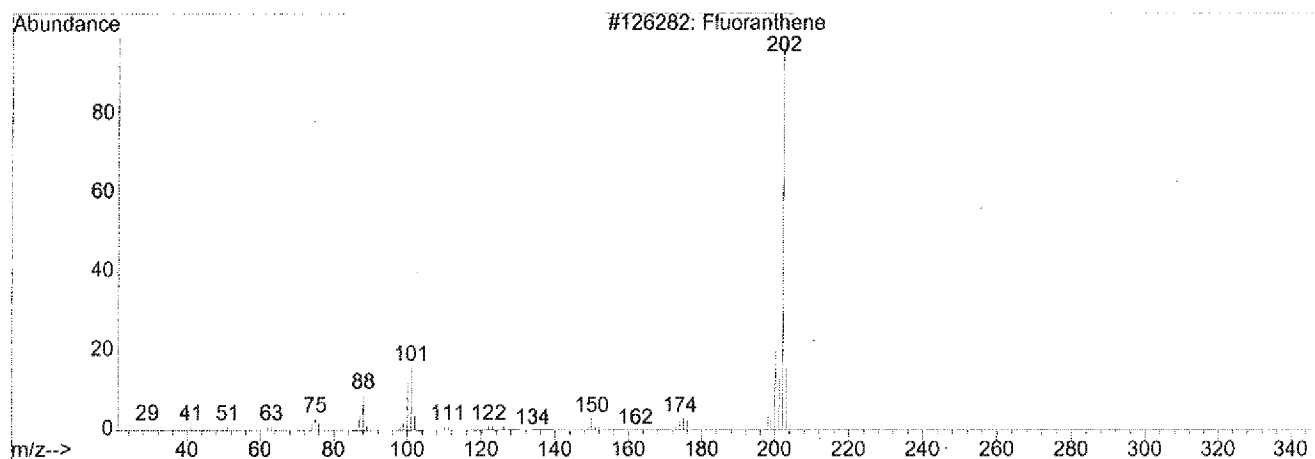
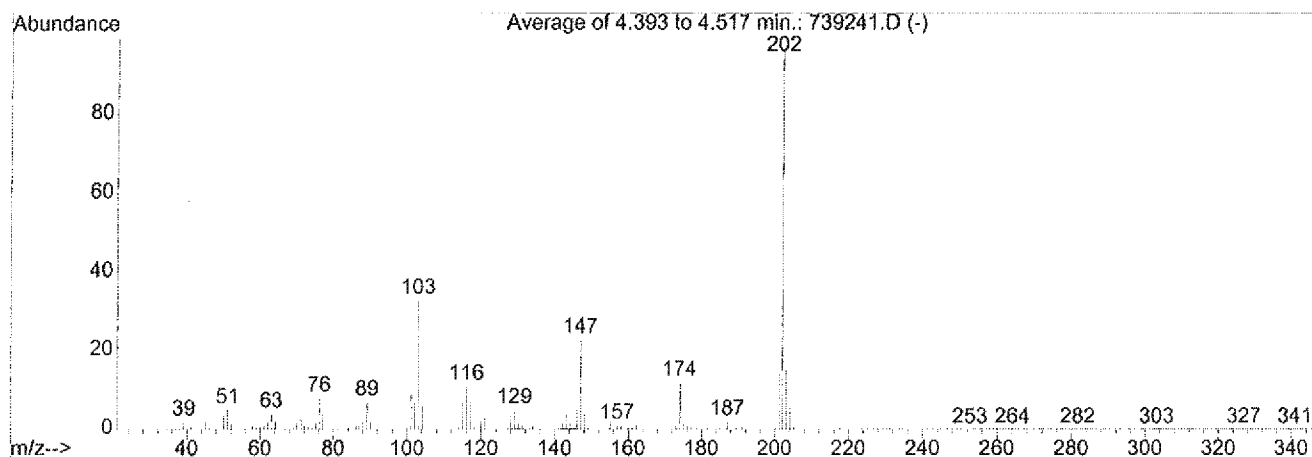
```

File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739241.D
Operator        : ASD
Date Acquired   : 24 Aug 2010  16:49
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 41
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
4	4.42	C:\DATABASE\NIST98.L		
		Fluoranthene	000206-44-0	47
		Pyrene	000129-00-0	47
		Pyrene	000129-00-0	47



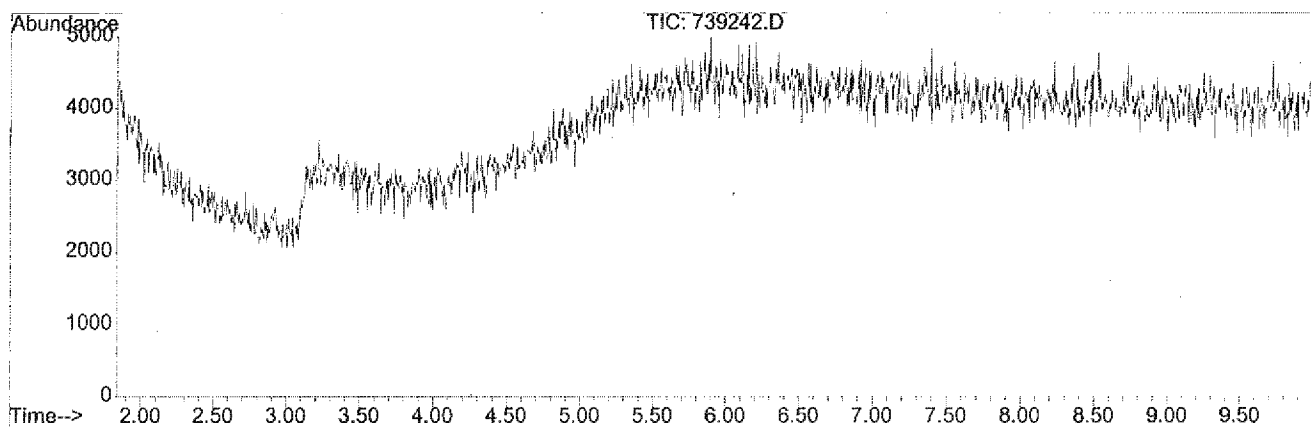
# Area Percent / Library Search Report

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Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739242.D  
 Operator : ASD  
 Date Acquired : 24 Aug 2010 17:02  
 Sample Name : BLANK  
 Submitted by : ASD  
 Vial Number : 1  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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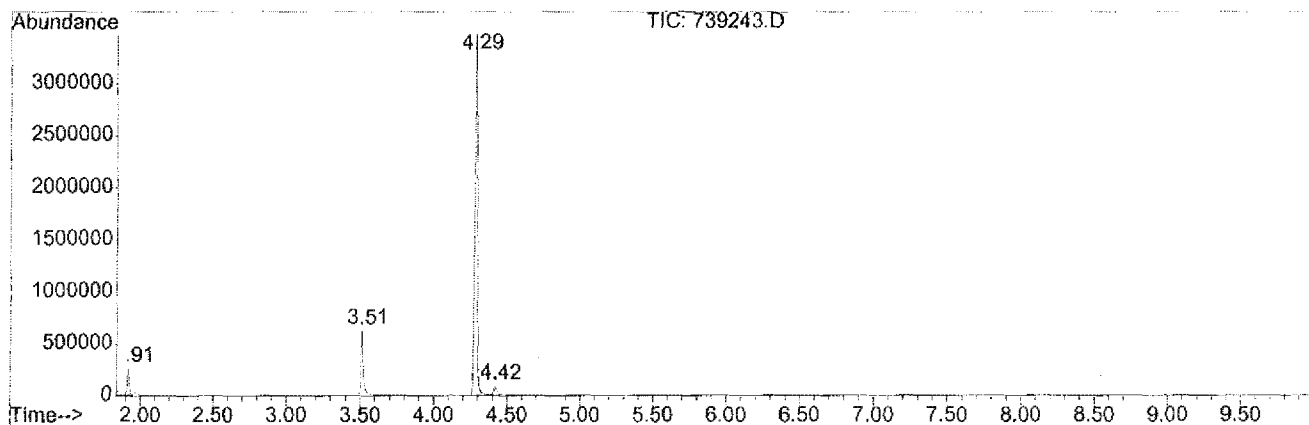
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739243.D  
 Operator : ASD  
 Date Acquired : 24 Aug 2010 17:15  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 43  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
1.914	236611	4.33	5.36
3.509	698069	12.77	15.82
4.286	4411679	80.72	100.00
4.416	118888	2.18	2.69

# Area Percent / Library Search Report

**Information from Data File:**

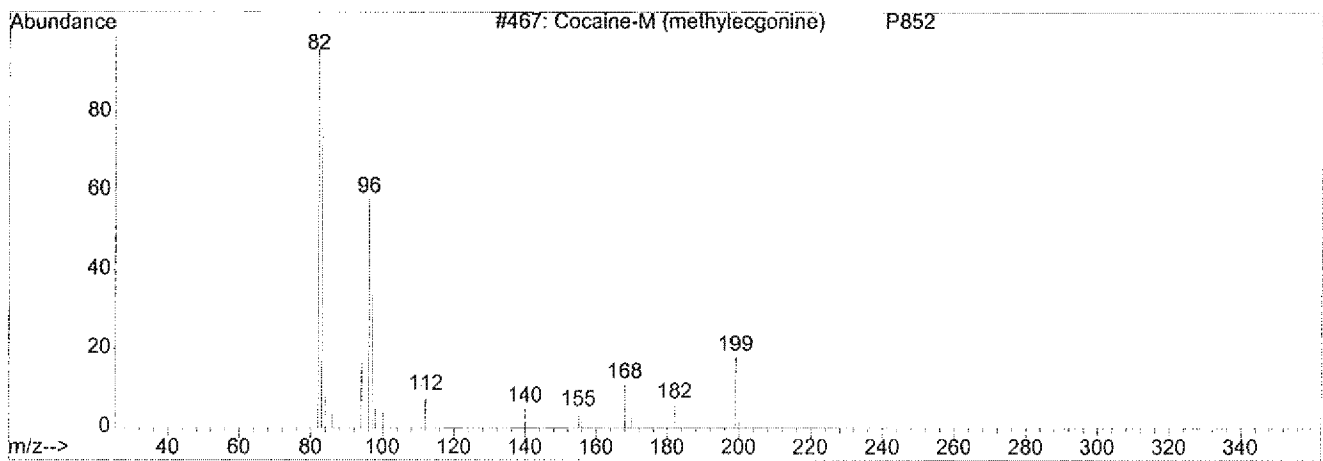
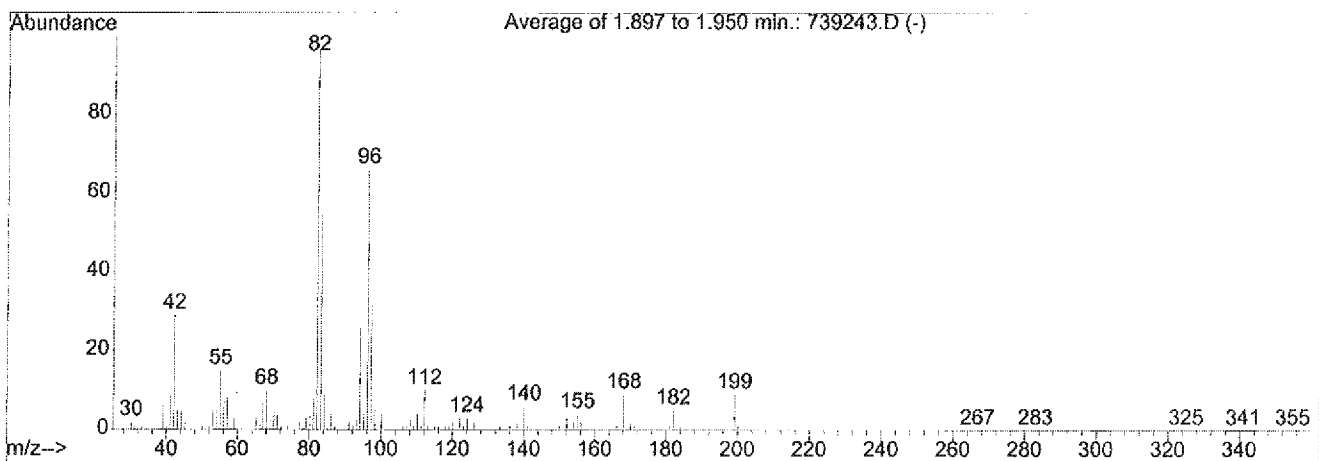
```

File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739243.D
Operator        : ASD
Date Acquired   : 24 Aug 2010  17:15
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 43
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	1.91	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (methylecgonine)	007143-09-1	96
		Cocaine	000050-36-2	38
		Cocaine-M (methylecgonine) AC	000000-00-0	16



# Area Percent / Library Search Report

**Information from Data File:**

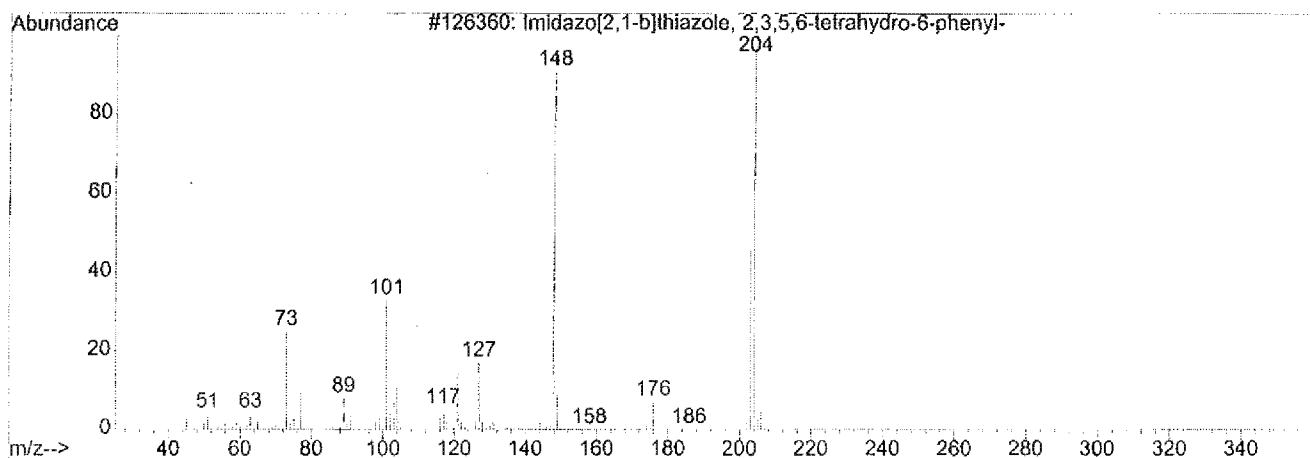
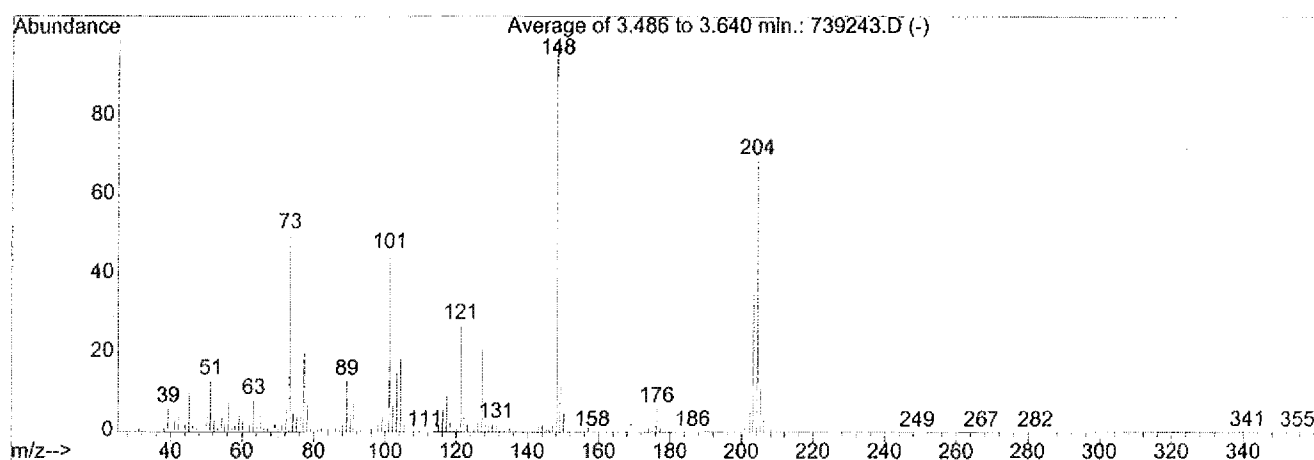
```

File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739243.D
Operator        : ASD
Date Acquired   : 24 Aug 2010  17:15
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 43
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	3.51	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



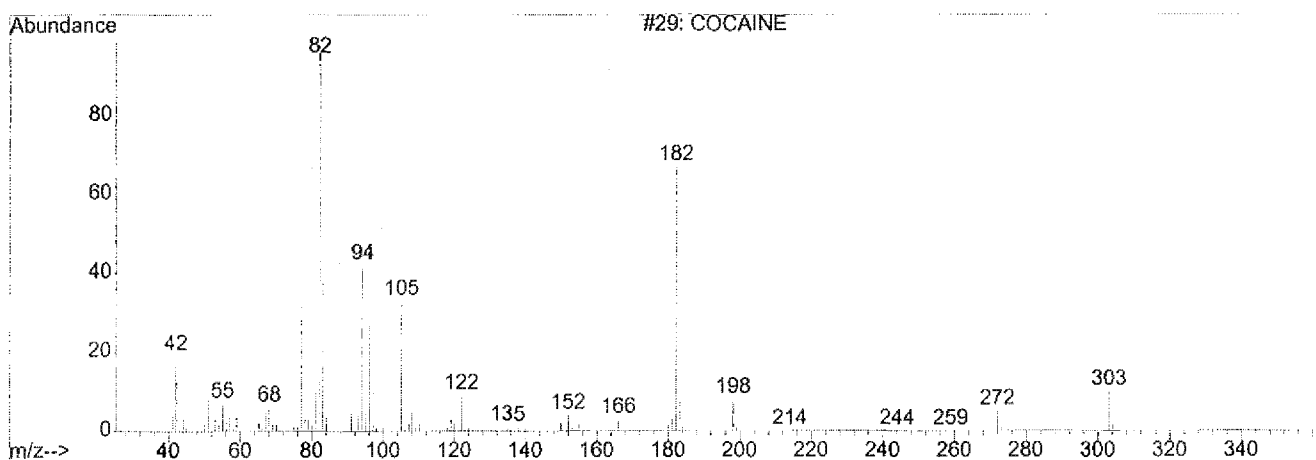
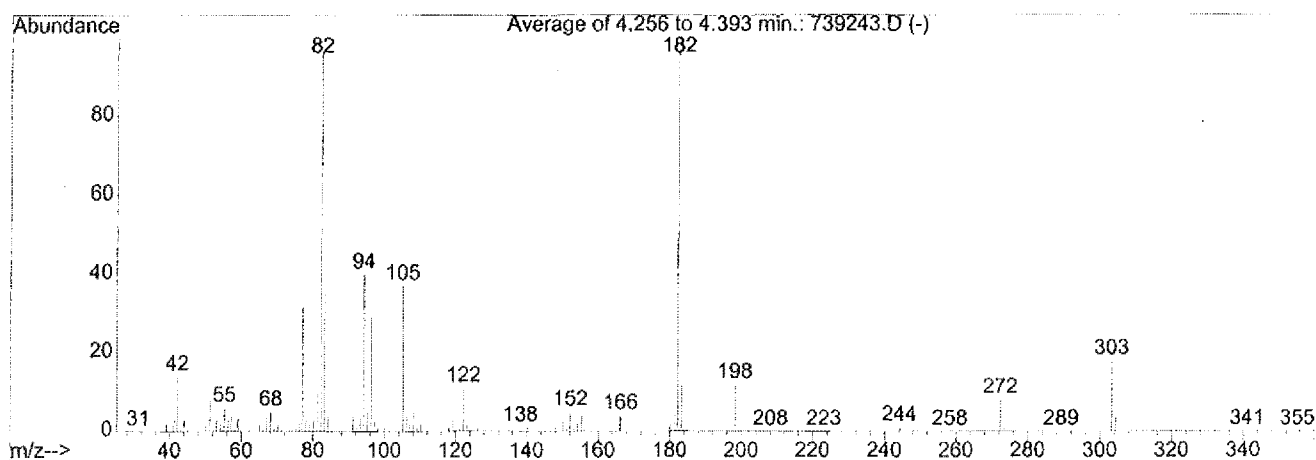
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739243.D  
 Operator : ASD  
 Date Acquired : 24 Aug 2010 17:15  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 43  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
3	4.29	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



# Area Percent / Library Search Report

**Information from Data File:**

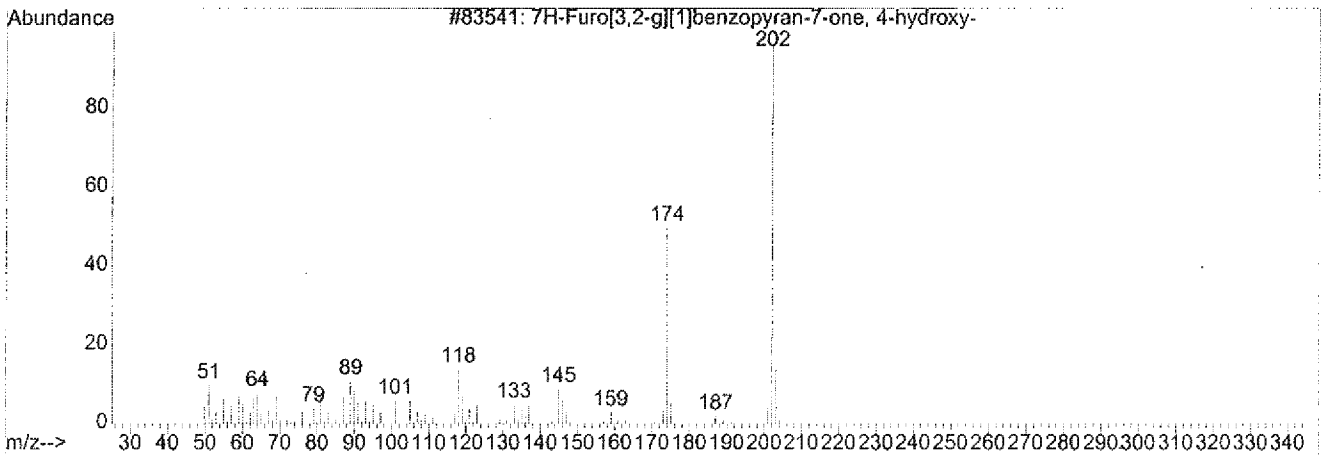
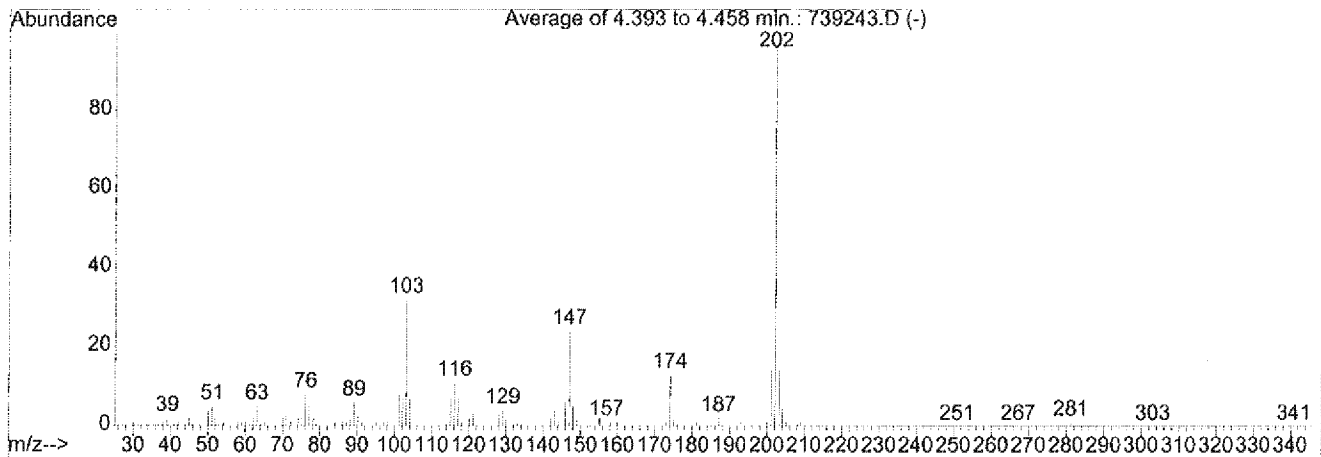
```

File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739243.D
Operator        : ASD
Date Acquired   : 24 Aug 2010  17:15
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 43
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
4	4.42	C:\DATABASE\NIST98.L		
		7H-Furo[3,2-g][1]benzopyran-7-one,	000486-60-2	47
		Pyrene	000129-00-0	47
		Benzene, 1,1'-(1,3-butadiyne-1,4-di	000886-66-8	47



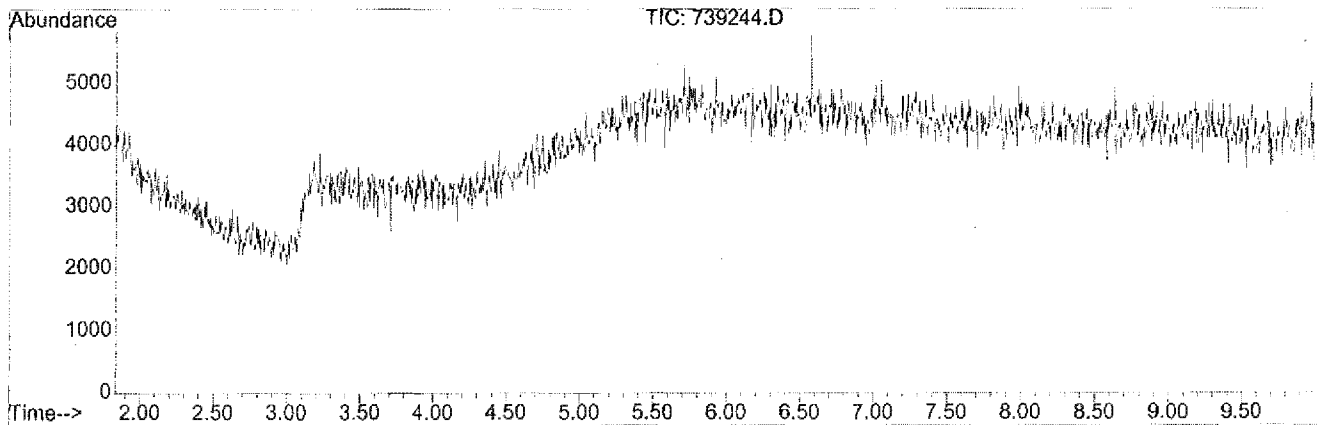
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739244.D  
Operator : ASD  
Date Acquired : 24 Aug 2010 17:28  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*



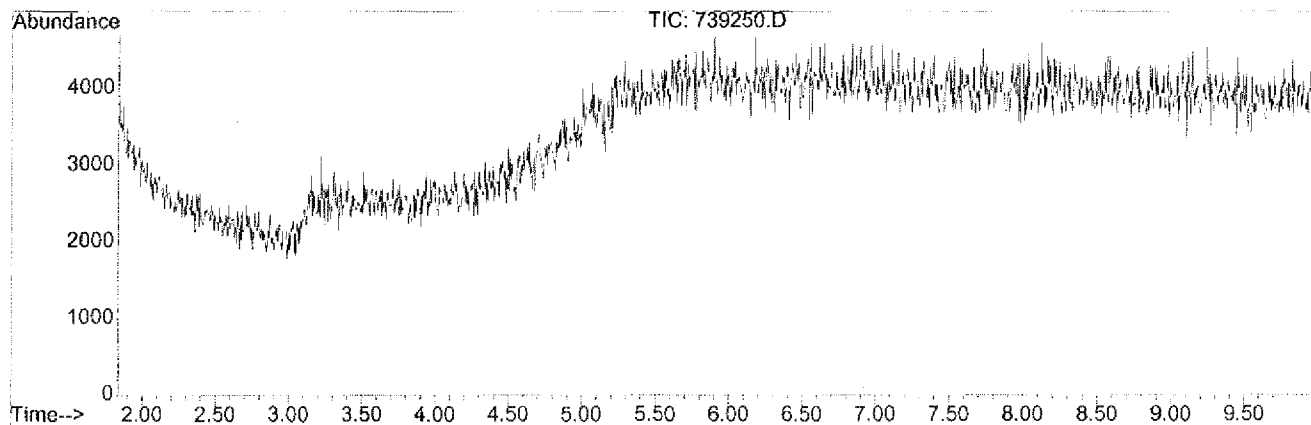
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739250.D  
Operator : ASD  
Date Acquired : 24 Aug 2010 18:45  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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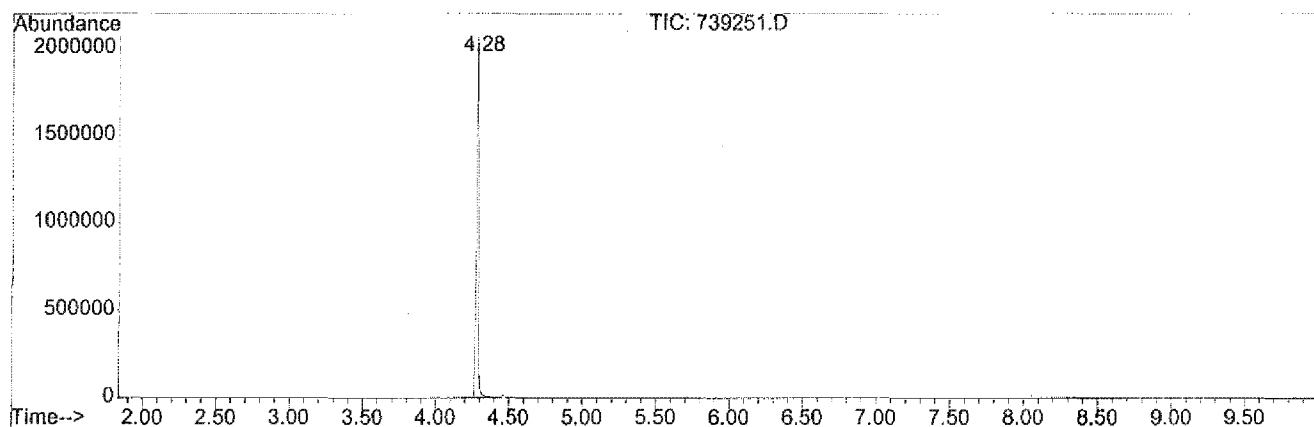
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739251.D  
 Operator : ASD  
 Date Acquired : 24 Aug 2010 18:58  
 Sample Name : COCAINE STD  
 Submitted by : ASD  
 Vial Number : 29  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.280	1948321	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

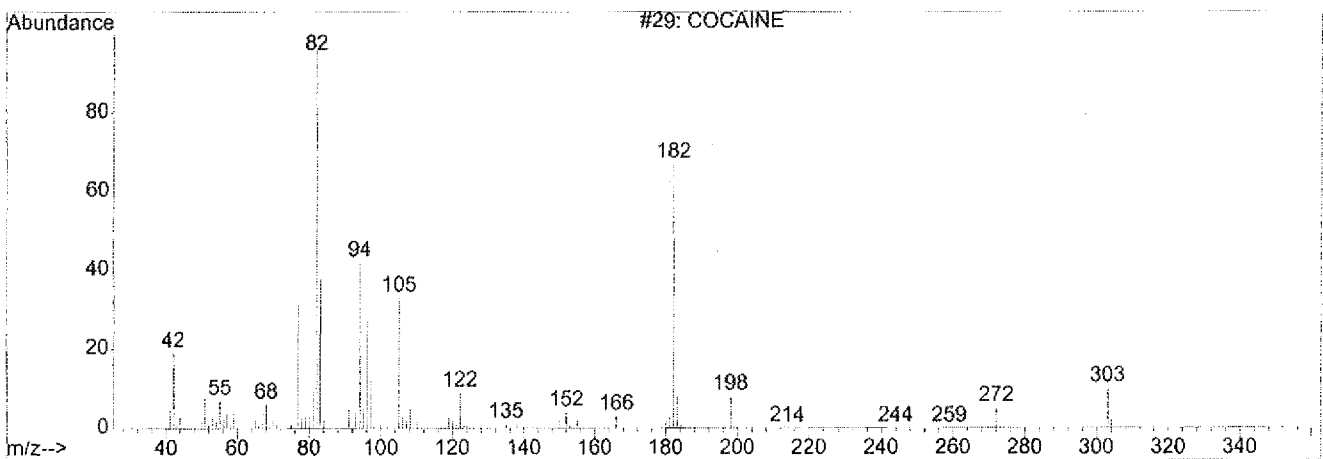
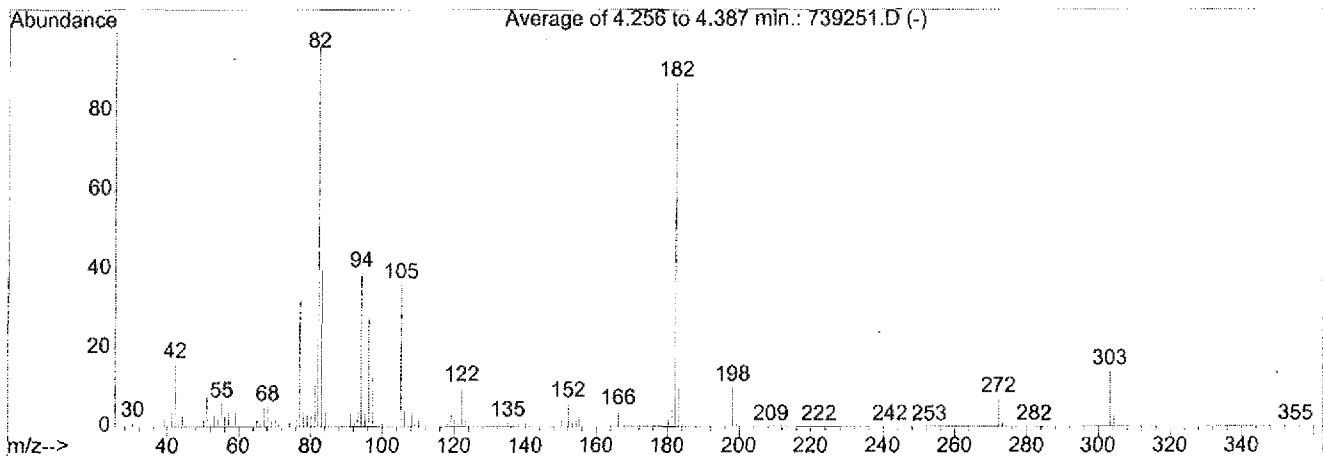
```

File Name       : F:\Q3-2010\SYSTEM6\08_24_10\739251.D
Operator        : ASD
Date Acquired   : 24 Aug 2010   18:58
Sample Name     : COCAINE STD
Submitted by    : ASD
Vial Number     : 29
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.28	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



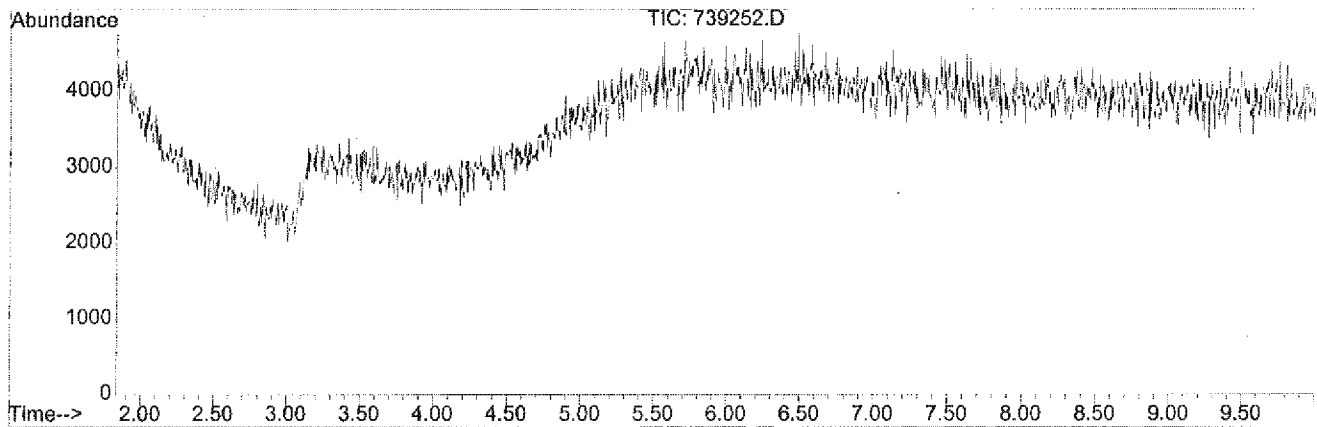
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM6\08\_24\_10\739252.D  
Operator : ASD  
Date Acquired : 24 Aug 2010 19:11  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*